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10/524,809	02/15/2005	James S. Im	A35416-PCT-USA (070050.27	1620
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			TOLEDO, FERNANDO L	
44TH FLOOR NEW YORK.	NY 10112-4498		ART UNIT	PAPER NUMBER
*			2895	
			NOTIFICATION DATE	DELIVERY MODE
			00/17/2009	EI ECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/524,809 IM, JAMES S. Office Action Summary Examiner Art Unit Fernando L. Toledo 2895 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of References Cited (PTO-982)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date 20050215 & 20051018.

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: __

* See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- Claims 1 and 3 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Voutsas
 (US Patent Application Publication US 2003/0000455 A1).
- 3. In re claim 1, Voustsas discloses (a) irradiating a first region of a surface of the semiconductor thin film with a pulse of a radiation beam, wherein the radiation beam is first patterned into at least one beamlet in a pattern of beamlets, wherein each beamlet is incident on a target area in the first region, wherein each beamlet has sufficient fluence to melt semiconductor material in the target area on which it is incident, and wherein the molten semiconductor material in the target area recrystallizes when it is no longer exposed to the incident beamlet; (¶0005) and (b) continuously translating the semiconductor thin film relative to the radiation beam so that a next region of the surface of the semiconductor thin film is irradiated in the same manner as step (a) (¶0005).
- In re claim 3, Voustsas discloses further comprising the step of using a mask to pattern
 the beamlets from the radiation beam pulse (¶0008).
- In re claim 4, Voustsas discloses wherein the mask comprises: a blocking portion that blocks through passage of radiation incident on it; a plurality of slits in a pattern, wherein the

slits allow through passage of radiation incident on them, and wherein the slits are disposed

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substantially parallel to each other in the pattern (¶0008).

6. In re claim 5, Voustsas discloses wherein the mask comprises: a blocking portion that

blocks through passage of radiation incident on it; a plurality of slits in a pattern, wherein the

slits allow through passage of radiation incident on them, and wherein the slits are arranged in

pairs along the sides of rectangles in the pattern (90008).

7. In re claim 6, Voustsas discloses further the step of comprising supporting the

semiconductor thin film on a movable stage, and wherein translating the semiconductor thin film

relative to the radiation beam comprises moving the movable stage along a linear path to the next

region (¶0007).

8. In re claim 7, Voustsas discloses, wherein the semiconductor thin film comprises rows of

regions, further comprising moving the movable stage along the linear path through a first row of

regions on the surface of the semiconductor thin film ($\P0007$ and Fig. 2).

9. In re claim 8, Voustsas discloses wherein the movable stage is moved continuously

without pause through the row of regions (¶0007).

10. In re claim 9, Voustsas discloses wherein the movable stage is paused at a region and is

then stepped to an adjacent region (¶0007).

11. In re claim 10, Voustsas discloses further comprising moving the movable stage along

linear paths through successive rows of regions until the entire surface of the semiconductor thin

film has been processed (figure 3).

12. In re claim 11, Voustsas discloses wherein at least one of the target areas in the first

region is contiguous to a corresponding target area in the next region, so that after irradiation of

the first and next regions an extended strip or recrystallized semiconductor material is formed (Figure 3).

- 13. In re claim 12, Voustsas discloses (a) using a laser to generate a pulse of a radiation beam (¶0005); (b) irradiating a first region era surface of the semiconductor thin film with the pulse of the radiation beam, wherein the radiation beam is first patterned into at least one beamlet in a pattern of beamlets, wherein each beamlet is incident on a target area in the first region, wherein each beamlet has sufficient fluence to melt semiconductor material in the target area on which it is incident, and wherein the molten semiconductor material in the target area recrystallizes when it is no longer exposed to the incident beamlet (¶0005), and (c) after irradiating the first region of the surface of the semiconductor thin film with the pulse of the radiation beam, translating the semiconductor thin film relative to the radiation beam so that a next region of the surface of the semiconductor thin film is irradiated in the manner of steps (a) and (b) (¶0005 and Figure 3).
- 14. In re claim 13, Voustsas discloses wherein the laser is triggered to generate the pulse of the radiation beam according to the position of the thin film semiconductor region relative to the radiation beam (¶0007).
- 15. In re claim 14, Voustsas discloses further comprising supporting the semiconductor thin film on a movable stage, and wherein translating the semiconductor thin film relative to the radiation beam comprises moving the movable stage, and wherein the laser is triggered to generate the pulse of the radiation beam according to the position of the movable stage (¶0007).
- In re claim 15, Voustsas discloses wherein the position of the movable stage is sensed by position sensors (¶0007).

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17. In re claim 16, Voustsas discloses wherein the position of the movable stage is

computed from an initial position of the stage (90007).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fernando L. Toledo whose telephone number is 571-272-1867.

The examiner can normally be reached on Mon-Fri 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew Richards can be reached on 571-272-1736. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Fernando L. Toledo/ Primary Examiner, Art Unit 2895

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11 September 2008